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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/657,624	09/08/2003	Christopher Vitello	200207120-I	1542
22879	7590	10/23/2006	EXAMINER	
HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400			NGUYEN, TAI V	
			ART UNIT	PAPER NUMBER
			3729	

DATE MAILED: 10/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/657,624	VITELLO ET AL.
	Examiner Tai Van Nguyen	Art Unit 3729

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 08 September 2006.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-34 is/are pending in the application.
 4a) Of the above claim(s) 11-34 is/are withdrawn from consideration.
 5) Claim(s) 8-10 is/are allowed.
 6) Claim(s) 1-6 is/are rejected.
 7) Claim(s) 7 is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date 9/803

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
 5) Notice of Informal Patent Application
 6) Other: _____

DETAILED ACTION

Election/Restrictions

1. Applicants' amendment filed on 9/8/2006 has been fully considered and made of record.
2. Claims 11-34 have been withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention Group II, III and IV, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 9/8/2006.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Seemann III, et al (US 5,958,325) in view of Lim (US 4,690,682).

As applied to claims 1 and 3, Seemann et al disclose a method of creating an internal channel of a fluid-ejection device, the method comprising: encapsulating (84, 86, Fig. 8) a channel core (82) in an element of the fluid-ejection as read feed groove (14) device that corresponds to the internal channel (see sequence Fig. 8 and 10).

However, Seemann does not disclose dissolving at least a portion of the channel core. Lim teaches dissolving at least a portion of the channel core (column 5, lines 35-

65+). It would have been obvious to one of ordinary skill in the art at this time the invention was made to have modified the method of Seemann by including dissolving of the channel core, as taught by Lim, to positively provide an improved method of controlling the pore size of microcapsule membrane (column 2, lines 67-68).

As applied to claim 2, Lim discloses wherein encapsulating a channel core in an element of the fluid-ejection device comprises encapsulating a water-soluble channel core in the element (column 5, lines 35-45+).

As applied to claim 4, Lim discloses the composite channel core comprises a soluble material and insoluble particles dispersed within the soluble material (column 5, lines 43-55).

As applied to claim 5, Seemann et al disclose the encapsulating (84, 86) a channel core (82) in an element of the fluid-ejection device comprises molding a material of the element around the channel core (see column 3, lines 61-65+).

As applied to claim 6, Seemann et al disclose encapsulating a channel core in an element of the fluid-ejection device comprises: disposing the channel core within a mold cavity; and injecting a material of the element into the mold cavity (column 4, lines 40-55).

Allowable Subject Matter

5. Claim 7 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Reasons for Allowance: the prior art does not teach all of the limitations of the claimed invention including:

In claim 8:

- forming a channel core that corresponds to the internal channel from a soluble material;
- disposing the channel core within a mold cavity;
- a material of an element of the fluid-ejection device into the mold cavity so as to encapsulate the channel core.

6. Claims 8-10 are allowed.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tai Van Nguyen whose telephone number is 571-272-4567. The examiner can normally be reached on M-F (7:30 A.M - 4:30 P.M).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TN.
October 11, 2006



A. DEXTER TUGBANG
PRIMARY EXAMINER